NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

School of Computer Science and Engineering
College of Engineering

A Web Demo for the Data Encryption Standard (DES)

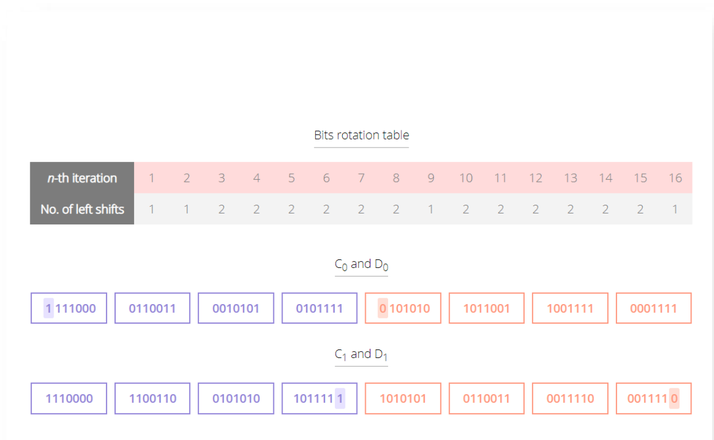
Exploring interactive ways of learning DES

The web demo aims to provide an interactive way of learning DES by allowing students to experiment with various inputs and study how its solutions are being derived. This enhances the students' learning process and help them gain a better understanding of the DES algorithm while allowing them to follow lessons easily with the help of a step-by-step visualization tool.

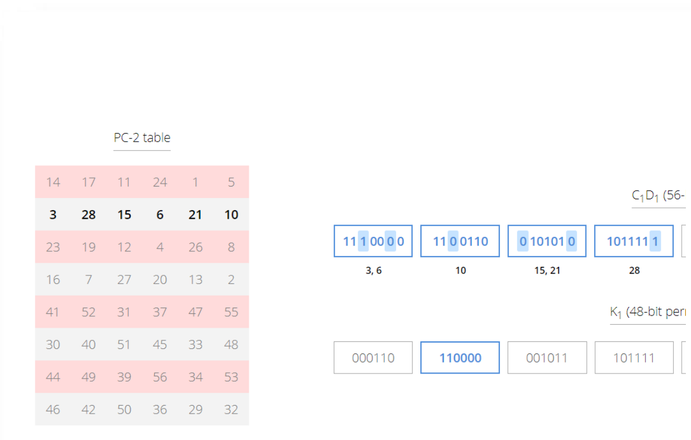
Features

- KEY GENERATION
- PLAINTEXT ENCRYPTION
- CIPHERTEXT DECRYPTION

Application Overview



DEMONSTRATION OF LEFT-SHIFT ROTATIONS



VISUALIZATION OF BITS PERMUTATION

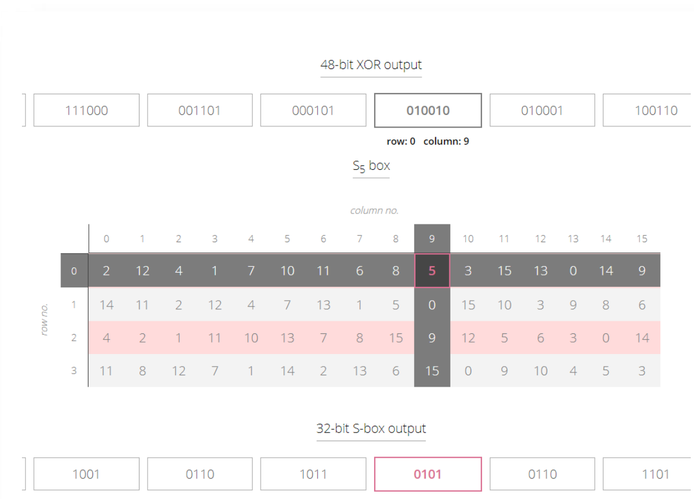


ILLUSTRATION OF S-BOX FUNCTIONS

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